

## **R156. Commerce, Occupational and Professional Licensing.**

### **R156-55b. Electricians Licensing Rules.**

#### **R156-55b-101. Title.**

These rules are known as the "Electricians Licensing Rules".

#### **R156-55b-102. Definitions.**

In addition to the definitions in Title 58, Chapters 1 and 55, as used in Title 58, Chapter 55 or these rules:

(1) "Electrical work" as used in Subsection 58-55-102(13)(a) and in these rules means installation, fabrication or assembly of equipment or systems included in "Premises Wiring" as defined in the edition of the National Electrical Code, as identified in Subsection R156-56-701(1)(b) which is hereby adopted and incorporated by reference. Electrical work includes installation of raceway systems used for any electrical purpose, and installation of field-assembled systems such as ice and snow melting, pipe-tracing, manufactured wiring systems, and the like. Electrical work does not include installation of factory-assembled appliances or machinery that are not part of the premises wiring unless wiring interconnections external to the equipment are required in the field, and does not include cable-type wiring that does not pose a hazard from a shock or fire initiation standpoint as defined in the National Electrical Code. Wiring covered by the National Electrical Code that does not pose a hazard as described above includes Class 2 wiring as defined in Article 725, Power-Limited circuits as defined in Article 760 and wiring methods covered by Chapter 8. Other wiring, including wiring under 50 volts is subject to licensing requirements.

(2) "Minor electrical work incidental to a mechanical or service installation" as used in Subsection 58-55-305(1)(n) means the electrical work involved in installation, replacement or repair of appliances or machinery that utilize electrical power. These installations do not include modification or repair of "Premises Wiring" as defined in the National Electrical Code. Electrical work is minor and incidental only when wiring is extended no more than ten feet in length from an outlet or disconnect provided specifically for the piece of equipment.

(3) "Residential project" as used in Subsection 58-55-302(3)(h)(ii) means electrical work performed in residential dwellings under four stories and will include single family dwellings, apartment complexes, condominium complexes and plated subdivisions.

(4) "Unprofessional conduct" as defined in Title 58, Chapters 1 and 55, is further defined, in accordance with Subsection 58-1-203(1)(e), in Section R156-55b-501.

(5) "Work commonly done by unskilled labor" as used in Subsection 58-55-102(13)(b)(iii) means work such as digging, sweeping, hammering, carrying, drilling holes, or other tasks that do not directly involve the installation of raceways, conductors, cables, wiring devices, overcurrent devices, or distribution equipment. Tasks such as handling wire on large wire pulls or assisting in moving heavy electrical equipment may utilize unlicensed persons when the task is performed in the immediate presence of and supervised by properly licensed persons. Tasks that are normally performed by the skilled labor of other trades, such as operating heavy equipment, driving, forming and pouring concrete, welding and erecting structural steel shall not be considered part of the electrical trade.

#### **R156-55b-103. Authority.**

These rules are adopted by the division under the authority of Subsection 58-1-106(1)(a) to enable the division to administer Title 58, Chapter 55.

#### **R156-55b-104. Organization - Relationship to Rule R156-1.**

The organization of this rule and its relationship to Rule R156-1 is described in Section R156-1-107.

#### **R156-55b-302a. Qualifications for Licensure - Examination Requirements.**

(1) In accordance with Subsection 58-55-302(1)(c)(i), the following examinations, each consisting of a theory section, a code section and a practical section, are approved by the division in collaboration with the board:

- (a) Utah Electrical Licensing Examination for Master Electricians;
- (b) Utah Electrical Licensing Examination for Master Residential Electricians;
- (c) Utah Electrical Licensing Examination for Journeyman Electricians; and
- (d) Utah Electrical Licensing Examination for Residential Journeyman Electricians.

(2) The minimum passing score for each section of the examination is as follows:

- (a) the applicant must obtain a "pass" grade on the practical section of the examination; and
- (b) the applicant must obtain a score of at least 75 on both the theory section and the code section of the examination.

(3) If an applicant passes any one section of the examination and fails any one or more of the other sections, he is only required to retake the section of the examination failed. There must be a minimum of 30 days between the first test and the retake of any failed section. Test approval letters expire six months from the date of issue. Reapplication for licensure is required to obtain a new test authorization letter.

(4) Admission to the examination is permitted in the form of a letter from the Division after the applicant has completed all requirements for licensure set forth in Sections R156-55b-302b and R156-55b-302c.

(5) An examinee who fails any section of the Utah Electricians Licensing Examination two times shall not be permitted to retake the examination until:

(a) the examinee meets with the board and the board outlines a required remedial program of education or experience of up to one year in length which must be completed before the examinee may again take the examination; and

(b) upon successful completion of the required remedial program of education or experience, the examinee shall apply to the Division to retake the failed portion of the examination a maximum of two times with at least 30 days between tests. Failure to pass all required portions of the examination upon retake shall result in denial of their application for licensure. An applicant continuing to seek licensure must reapply for licensure by filing a new application with the required fee and may do so only after completing additional remedial education and experience as determined by the Division and the Board.

#### **R156-55b-302b. Qualifications for Licensure - Education Requirements.**

(1) In accordance with Subsection 58-55-302(3)(g)(i), the approved electrical training program for licensure as a residential journeyman electrician consists of:

(a) a curriculum of electrical study approved by the Utah Board of Regents or other curriculum that is deemed substantially equivalent; and

(b) at least two years of work experience as a licensed apprentice consistent with Section R156-55b-302c.

(2) In accordance with Subsection 58-55-302(3)(f)(i), the approved four year planned training program for licensure as a journeyman electrician consists of:

(a) a curriculum of electrical study approved by the Utah Board of Regents or other curriculum that is deemed substantially equivalent; and

(b) at least four years of work experience as a licensed apprentice consistent with Section R156-55b-302c.

(3) In accordance with Subsections 58-55-302(3)(d)(i), an approved course of study for a graduate of an electrical trade school is a curriculum of electrical study approved by the Utah Board of Regents or other curriculum that is deemed substantially equivalent.

(4) It shall be the responsibility of the applicant to provide adequate documentation to establish equivalency.

(5) In accordance with Subsection 58-55-302(3)(d)(i), an approved college or university shall be accredited by the Engineering Accreditation Commission/Accreditation Board for Engineering and Technology or the Canadian Engineering Accrediting Board.

#### **R156-55b-302c. Qualifications for Licensure - Work Experience.**

(1) In accordance with Subsections 58-55-302(3)(d), (e), (f) and (g), the practical electrical experience, course of study, practical experience, planned training program, or electrical training program shall include on-the-job work experience in the following categories and approximate hours:

(a) approximately 3000-4800 hours residential journeyman electrician; 4000-6400 hours journeyman electrician in raceways, boxes and fittings, wire and cable to include conduit, wireways, cableways and other raceways and associated fittings, individual conductors and multiconductor cables, and nonmetallic-sheathed cable;

(b) approximately 600-1200 hours residential journeyman electrician; 800-1600 hours journeyman electrician in wire and cable to include individual conductors and multi-conductor cables;

(c) approximately 300-900 hours residential journeyman electrician; 400-1200 hours journeyman electrician in distribution and utilization equipment to include transformers, panel boards, switchboards, control panels, disconnects, motor starters, lighting fixtures, heaters, appliances, motors, and other distribution and utilizations equipment; and

(d) approximately 300-900 hours residential journeyman electrician; 400-1200 hours journeyman electrician in specialized work to include grounding, wiring of systems for sound, data, communications, alarms, automated systems, generators, batteries, computer equipment, etc.

(2) Each year of work experience shall include at least 2000 hours and may be obtained in one or more years. No more than one year of work experience may be credited for each 12 month period.

(3) No credit will be given for work experience performed illegally.

#### **R156-55b-303. Renewal Cycle - Procedures.**

(1) In accordance with Subsection 58-1-308(1), the renewal date for the two-year renewal cycle applicable to licensees under Title 58, Chapter 55 is established by rule in Section R156-1-308a.

(2) Renewal procedures shall be in accordance with Section R156-1-308a.

#### **R156-55b-304. Continuing Education.**

(1) In accordance with Subsections 58-1-203(1)(g) and 58-1-308(3)(b), there is created a continuing education requirement as a condition for renewal or reinstatement of master, journeyman, residential master, residential journeyman and apprentice electrician licenses issued under Title 58, Chapter 55.

(2) Continuing education shall consist of 16 hours of course work in each preceding two year period of licensure or expiration of licensure.

(3) A minimum of eight hours shall be on the current edition of the National Electrical Code, as identified in Subsection R156-56-701(1)(b).

(4) The licensee is responsible for maintaining competent records of completed qualified continuing education for a period of four years after the close of the two year renewal period to which the records pertain.

(5) The standards for qualified continuing education are as follows:

(a) the content must be relevant to the electrical trade and consistent with the laws and rules of this state;

(b) an instructor must either be currently teaching or have taught courses related to the electrical trade within the preceding two years for one of the following:

(i) a trade school, college or university whose electrical program is approved in accordance with Subsections R156-55b-302b(1)(a) and (5);

(ii) a professional association or organization representing licensed electricians whose program objectives relate to the electrical trade;

(iii) the licensing agency of another state;

(iv) a federal or other Utah agency or another state's agency; or

(v) the Division's Building Codes Education program.

(6) Electricians Licensing Board members, acting in their official capacity as a board member, may attend any continuing education course at no charge, at any time, for no credit, to monitor the quality of instruction.

#### **R156-55b-401. Scope of Practice.**

In accordance with Subsection 58-55-308(1), the following shall apply:

(1) It shall be the responsibility of the journeyman, residential journeyman, master or residential master electrician who is licensed by the division to insure that the work installed by himself, as well as by any apprentice under his supervision, is properly installed. Proper and safe installations shall be the responsibility of the supervising party or parties.

(2) An apprentice in a planned training program as set forth in Subsection 58-55-302(3)(f)(i) may be supervised as a fourth year apprentice in the fifth and sixth year of apprenticeship; however, in the seventh and succeeding years of apprenticeship, he shall be under immediate supervision as set forth in Subsection 58-55-302(3)(h)(i).

(3) All other apprentices shall be under immediate supervision as set forth in Subsection 58-55-302(3)(h).

(4) For the purposes of Subsections 58-55-102(27), 58-55-501(17) and 58-55-302(3)(h), apprentices and the licensed electricians responsible for their supervision shall be employees of the same contractor, or the employers of the supervising employees shall have a contractual responsibility for the performance of both the supervised and supervising employees. Employees of licensed professional employer organizations who provide workers under a contract with an electrical contractor shall be considered to be the employees of the electrical contractor for the purposes of this rule.

#### **R156-55b-501. Unprofessional Conduct.**

"Unprofessional conduct" includes:

(1) failure of a licensee to carry a copy of their current license at all times when performing electrical work; and

(2) failure of an electrical contractor to certify an apprentice's hours and breakdown of work experience by category when requested by an apprentice that is or has been an employee.

**KEY: occupational licensing, licensing, contractors, electricians**

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# **ELECTRICIANS LICENSING RULES**

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